

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

RRB GROUP D

TEST SERIES

DATE- __/__/__

DAY- _____

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set - 23

QUESTION- 100

MARKS- 100

NEGATIVE MARK- 0.33

DURATION- 90 MIN.

1. Use only ball pens with black or blue ink
2. As soon as the examination starts, you must check this question booklet and if there is any unprinted, mutilated or partially printed page or question in it, then replace it with the correct question booklet through the examiner.
3. There are a total of 100 questions in this question booklet.
4. This is an objective test, in which four options are given for the answer to each question, you have to choose only one option with the correct answer out of these four options.
5. Answers to all questions are to be written on separate answer sheets.

6. Instructions for filling the answer sheet are written on the back side of the answer sheet, read them carefully before filling the answer sheet.
7. Blank pages are available in this question booklet for rough work.
8. Candidates cannot leave the room before the end of the examination.
9. After the examination is over, you can go out only with his permission after submitting the ORIGINAL COPY of the answer sheet to the invigilator.
10. After the completion of the examination, the candidate is allowed to take the question booklet and answer sheet with him/her.
11. 1 marks will be given for each correct answer and 0.33 marks will be deducted for each wrong answer.

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1. Who is considered the father of biology?
 - (a) Lamarck
 - (b) Aristotle
 - (c) Theophrastus
 - (d) Carolus Linnaeus
2. Which of the following plant parts is haploid?
 - (a) Gametes
 - (b) Flowers
 - (c) Ovary
 - (d) Anthers
3. Which cells in males synthesize and secrete testicular hormones (androgens)?
 - (a) Spermatogonia
 - (b) Sertoli cells
 - (c) Mucus cells
 - (d) Leyding cells
4. Which of the following is a micronutrient for plants?
 - (a) Phosphorus
 - (b) Manganese
 - (c) Magnesium
 - (d) Sulphur
5. If the absolute refractive indices of water and glass are $\frac{4}{3}$ and $\frac{3}{2}$ respectively, then the refractive index of glass with respect to water is
 - (a) $\frac{8}{9}$
 - (b) $\frac{9}{8}$
 - (c) $\frac{4}{3}$
 - (d) $\frac{3}{4}$
6. What happens when dry slaked lime is reacted with chlorine gas?
 - (a) Bleaching powder is formed
 - (b) Plaster of Paris is formed
 - (c) Baking soda is formed
 - (d) Washing soda is formed
7. Which of the following glands of a person suffering from 'Goiter' disease does not function properly?
 - (a) Pituitary
 - (b) Adrenal
 - (c) Pancreas
 - (d) Thyroid
8. Which one of the following is not a unicellular organ?
 - (a) Embryo
 - (b) Zygote
 - (c) Paramecium
 - (d) Hen's egg
9. What is the reason that copper cannot separate zinc from its salt solution?
 - (a) Copper is more reactive than zinc
 - (b) Copper is less reactive than zinc
 - (c) Zinc is one of the noble metals
 - (d) Zinc is below copper in the reactivity chain
10. Choose the group of diseases spread by bacteria from the following.
 - (a) Chickenpox, Influenza and Polio
 - (b) Malaria, Polio and Typhoid
 - (c) Tuberculosis, Pneumonia and Typhoid
 - (d) Chickenpox, Meningitis and Tuberculosis
11. The image formed of a distant coloured object in a pinhole camera is always
 - (a) Real, Inverted, Black & White and Small
 - (b) Virtual, Erect, Coloured and Small
 - (c) Real, Erect, Coloured and Small
 - (d) Real, Inverted, Coloured and Small
12. What is the combined percentage of other gases present in air other than nitrogen and oxygen; such as CO_2 , Methane, Argon, Ozone and Water vapour, as per volume?
 - (a) 78%
 - (b) 1%
 - (c) 0.1%
 - (d) 21%
13. Which of the following is a group of poor conductors of heat?
 - (a) Air, wood, plastic
 - (b) Wool, wood, iron
 - (c) Water, copper, wood
 - (d) Air, aluminium, wool
14. The joint between the head and the upper jaw is an example of
 - (a) Hinge joint
 - (b) Fixed joint
 - (c) Pelvic joint
 - (d) Ball and socket joint
15. An air bubble inside water acts like ...
 - (a) Plano-convex lens
 - (b) Concave mirror
 - (c) Convex lens
 - (d) Concave lens
16. In which of the following examples of motion the distance travelled and the magnitude of displacement are the same?
 - (a) Circular motion
 - (b) Rectilinear motion
 - (c) Oscillatory motion
 - (d) Random motion

- (a) Earth revolving around the sun
(b) Car moving on a circular path
(c) Oscillating pendulum
(d) Car moving on a straight road
17. On increasing the pressure on a liquid its boiling point
(a) increases
(b) decreases
(c) does not change
(d) first decreases and then increases
18. A bulb (100W, 200 V) is connected to a 160 V voltage. The power loss will be
(a) 64 W (b) 100 W
(c) 32 W (d) 160 W
19. The frequency of ultrasound is
(a) <20Hz and >20000 Hz
(b) <20 Hz
(c) >20 Hz and <20000 Hz
(d) >20000 Hz
20. What is the amount of heat required to change 1 kg of liquid into gaseous state at atmospheric pressure and boiling point of the liquid called?
(a) Latent heat of vaporization
(b) Latent heat of fusion
(c) Specific heat of vaporization
(d) None of the above
21. Which of the following statements are true about veins in human circulatory system?
(a) Veins have thin walls
(b) All veins carry blood containing carbon dioxide
(c) Veins carry blood from various organs to the heart
(d) All of the above
22. Which one of the following statements regarding human nutrition is correct about cellulose?
(a) Humans do not have cellulose digestive enzymes
(b) Cellulose is easily broken down into smaller components which are expelled as roughage
(c) Cellulose digestive bacteria present in humans convert cellulose into fibres
(d) Cellulose is a type of carbohydrate which provides energy when absorbed in human blood
23. The IUPAC name of ether is
(a) Methanol
(b) Methanal
(c) Methoxy methane
(d) Methoxy ethane
24. Which organ of a patient suffering from malaria gets enlarged?
(a) Spleen (b) Pokrotherm
(c) Gall bladder (d) Liver
25. Fishes are
(a) Homeotherm (b) Kidney
(c) Both 'a' and 'b' (d) None of these
26. The smallest four-digit number divisible by 15 is
(a) 1000 (b) 1010
(c) 1020 (d) 1005
27. A number is multiplied by 5 and then 25 is added to it. The result obtained is divided by 5 and the original number is subtracted from it. The remaining number is
(a) 0 (b) 1
(c) 3 (d) 5
28. How many numbers are there between 101 and 300 which are exactly divisible by 3 and 5?
(a) 13 (b) 14
(c) 15 (d) 16
29. Which of the following has the smallest magnitude?
(a) $\frac{7}{13}$ (b) $\frac{11}{25}$
(c) $\frac{14}{33}$ (d) $\frac{8}{15}$
30. If 300 is reduced by 2.5%, the answer is
(a) 292.5 (b) 296.5
(c) 297.5 (d) 295

31. Due to a 15% fall in the price of apples, a seller can buy 2 kg more apples for ₹240. What will be the new price of apples per kg?

- (a) ₹18 (b) ₹20
(c) ₹36 (d) ₹150

32. If the simple interest on an amount for 6 years is equal to 30% of the principal, then in how many years will it become equal to the principal?

- (a) 30 years (b) 20 years
(c) 22 years (d) 10 years

33. A batsman has a certain average of runs scored in 11 innings. In the 12th innings he scores 90 runs, due to which his average of runs decreases by 5. What will be the average of his runs after the 12th innings?

- (a) 170 (b) 150
(c) 127 (d) 145

34. A sum of money becomes ₹815 in 3 years at the rate of simple interest and ₹854 in 4 years, then what will be that sum?

- (a) ₹690 (b) ₹698
(c) ₹692 (d) ₹700

35. Ravi buys 800 oranges at the rate of ₹3.75 per dozen. Out of which he sells 450 oranges at the rate of 2 oranges for ₹1 and the rest at the rate of 5 oranges for ₹2. Find his percentage of profit or loss.

- (a) 40% loss (b) 46% profit
(c) 42% loss (d) 45% profit

36. The purchase price of an item is ₹8000 and its marked price is ₹11200. If after giving x% discount there is a profit of 12%, then the value of x will be

- (a) 23% (b) 20%
(c) 22% (d) 21%

37. To get simple interest at the rate of 12% per annum, Madhav deposits a sum of ₹58750 for 4 years. What will be the total amount received by Madhav at the end of 4 years?

- (a) ₹69540 (b) ₹74460
(c) ₹86950 (d) ₹91230

38. In a mixture of 60 liters, the ratio of ethanol and ether is 4 : 1. How much more quantity of ether must be added to make this ratio 2 : 1?

- (a) 24 litres (b) 10 litres
(c) 18 litres (d) 12 litres

39. What is the compound interest received on a sum of ₹7800 at 5% annual rate after 3 years?

- (a) 1235.685 (b) 1229.475
(c) ₹1287.68 (d) ₹1200

40. Kamal's age is 5 times the age of his sister Geeta, who is 2 years younger than her brother Ram. If Ram's age is 8 years, then what will be Kamal's age?

- (a) 30 years (b) 28 years
(c) 26 years (d) 40 years

41. What is the single discount equal to the successive discounts of 20%, 15% and 10%?

- (a) 42.9% (b) 32.7%
(c) 45% (d) 38.8%

42. Find the average of the following set of numbers

352, 324, 679, 748, 523, 425, 340, 249

- (a) 520 (b) 660
(c) 428 (d) 455

43. The ratio of the present ages of Ravi and Jai is 3 : 2. If 4 years ago, Ravi's age was 6 years more than Jai's age, then what is Jai's present age?

- (a) 12 years (b) 18 years
(c) 16 years (d) 15 years

44. A cyclist covers a distance of 24 km at a speed of 16 km/h and a distance of 36 km at a speed of 15 km/h. Find his average speed for the whole journey

- (a) 15.38 km/hr (b) 16 km/hr
(c) 15.5 km/hr (d) 16.38 km/hr

45. If X is 25% of Y and Y is 50% of Z, then find X : Z

- (a) 2 : 8 (b) 2 : 4
(c) 1 : 8 (d) 1 : 4

46. A can build a wall in 30 days and B alone can build the same wall in 40 days. If both of them build the wall together and get wages of ₹ 7000, then what will be B's share?

- (a) ₹3000 (b) ₹5000
(c) ₹4000 (d) ₹2500

47. A car has to cover a distance of 46 km between two places in 1 hour. If the car covers a distance of 25 km at a speed of 40 km/h, what should be its speed to cover the remaining journey in the stipulated time?

- (a) 58 km/h (b) 65 km/h
(c) 56 km/h (d) 60 km/h

48. A buys a watch and gets a discount of 24% on its selling price. If he pays ₹779 for the watch, what will be the marked price of the watch?

- (a) ₹1040 (b) ₹1025
(c) ₹950 (d) ₹900

49. Two trains of length 180 m and 120 m respectively running on parallel tracks in opposite direction at the speed of 65 km/hr and 55 km/hr respectively, in how many seconds will they cross each other?

- (a) 9 (b) 6
(c) 12 (d) 15

50. If the interest on a sum of ₹25000 at the rate of simple interest at the end of three years is ₹7500, then what will be the compound interest on the same sum at the same rate at the end of three years?

- (a) ₹8500 (b) ₹8275
(c) ₹7750 (d) ₹8250

51. In a class 300 students speak Hindi. 150 students speak English and 100 students speak both Hindi and English. How many students are there in the class?

- (a) 160 (b) 350
(c) 250 (d) 120

52. Which of the following words cannot be formed from the letters of the word ADULTERATION?

- (a) RELATION (b) RETAIL
(c) RETURNING (d) TOILET

53. What should come in place of both the question marks (?) in the following equation?

$$\frac{32}{?} = \frac{?}{648}$$

- (a) 72 (b) 288
(c) 188 (d) 144

54. Based on the given similarity, find the word which is not given from the given options.

Butter : Milk :: Book:

- (a) Author (b) Paper
(c) Text (d) Printing

55. In a row of 20 students, R is fifth from the right and T is fourth from the left. How many students are there between R and T?

- (a) 10 (b) 12
(c) 13 (d) 11

56. In the following options some letters have been omitted according to a particular rule. Which of the following options follows that rule?

- (a) AEINRY (b) AEJOTY
(c) AFKPUZ (d) AFKPTY

57. Three of the following four options are alike in a certain way and so form a group. Choose the odd word from the following four options

- (a) Salt (b) Cumin
(c) Black pepper (d) Chilli

58. Choose the correct option from the following options, which will complete the following series 100,50,52,26,28,?,16,8

- (a) 30 (b) 14
(c) 32 (d) 36

59. Pointing towards Govind, Gopal said, "His father is the only son of my father." Find the relation of Gopal with Govind

- (a) Son (b) Grandson

(c) Grandfather (d) Father
60. How many meaningful English words can be made using each letter of the alphabets ANP only once?

- (a) Three (b) Two
(c) Four (d) One

61. Five boys are sitting in a row. A is sitting to the right of B. E is sitting to the left of B who is sitting to the right of C.

If A, If A is sitting to the left of D, then who is sitting in the middle of the row?

- (a) C (b) B
(c) A (d) E

62. Just as 'Bank' is related to 'Money', in the same way 'Transport' is related to....

- (a) Goods (b) Road
(c) Movement (d) Traffic

63. If LIBERALIZATION is coded as 34256134918470, then in the same code language AERATION will be coded as

- (a) 15618471 (b) 15168470
(c) 15618470 (d) 15186471

64. Amar is younger than Sujay but not younger than Abhay. Jeevan is elder than Kumar, who is elder than Sujay, then tell who will be the eldest?

- (a) Sujay (b) Jeevan
(c) Kumar (d) None of these

65. Find the next number in the series 7, 10, 8, 11, 9, 12, ...

- (a) 10 (b) 7
(c) 12 (d) 14

66. Out of the following four options, three options are related to each other and form a group. Choose the fourth option which does not belong to them

- (a) Mercury (b) Copper
(c) Silver (d) Aluminium

67. Choose the correct option from the given options which will complete the following series 3, 6, 12, 21, ?, 48

- (a) 38 (b) 36

- (c) 33 (d) 34

68. If BAT = 69, then the value of MAN is

- (a) 104 (b) 85
(c) 88 (d) 84

69. Which of the following will come in place of question mark (?) ?

$$? \div 26 \times 17 = 7225$$

- (a) 11950 (b) 10950
(c) 11050 (d) 11235

70. What will be the average of the following set of numbers?

587, 221, 60, 342, 188, 426, 225, 367

- (a) 302 (b) 224
(c) 258 (d) 250

71. What should be the next number in the following number series?

987654321876543217654321

- (a) 7 (b) 8
(c) 9 (d) 6

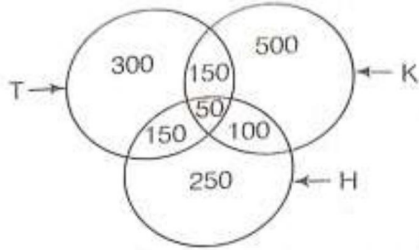
72. A man was 32 years old at the time of birth of his first son. When his son was 7 years old, the age of that man's wife was 36 years. What will be the difference between the ages of that man and his wife?

- (a) 3 years (b) 5 years
(c) 7 years (d) 4 years

73. If 'a' means ' \div ', 'b' means '+', 'c' means '-' and 'd' means ' \times ', then $24 \div 6 \times 4 \div 9 \times 8$ is equal to

- (a) 34 (b) 19
(c) 17 (d) 30

74. The Venn diagram given below gives the result of a survey of 1500 people in a city regarding their knowledge of Kannada (K), Hindi (H) and Telugu (T).

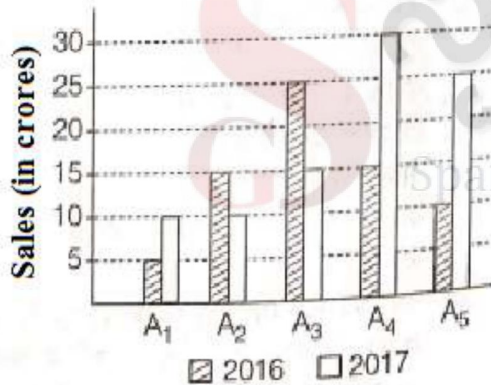


What is the number of people who know all the three languages?

- (a) 50 (b) 150
(c) 300 (d) 1050

75. Study the given chart carefully and answer the question.

The bar chart shows the sales of wrist watches from five branches A_1 , A_2 , A_3 , A_4 and A_5 of company 'ABC' in the year 2016-2017.



What is the ratio of total sales of branches A_2 and A_4 from the year 2016 to the year 2017?

- (a) 2:3 (b) 3:5
(c) 3:4 (d) 3:7

76. Given below is a question and two statements I and II containing some information. Decide which of the statements is/are sufficient to answer the question?

The difference between the age of a father and that of his son is 21 years. What is the present age of the son?

Statement

I. After 5 years, the ratio of the age of the father and that of his son will be 5 : 2.

II. After 5 years, the sum of the age of the father and that of his son will be 49 years.

- (a) Only statement I is sufficient
(b) Only statement II is sufficient
(c) Either statement I or statement II is sufficient
(d) Both statements I and II are sufficient

77. Given below is a statement and two arguments I and II. Decide which of the arguments is/are strong with respect to the statement?

Statement Should the private sector be allowed to operate hospitals in India?

Argument

- I. Yes, they operate in advanced western countries.
II. No, it is dangerous to keep hospitals in private hands.

- (a) Only argument I is strong
(b) Only argument II is strong
(c) Neither argument I nor argument II is strong
(d) Both arguments I and II are strong

78. From the given options, choose the term which is related to the third term in the same way as the second term is related to the first term.

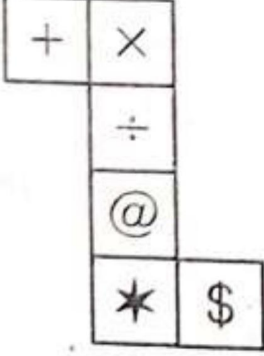
Blacksmith : Can :: Carpenter :

- (a) Axe (b) Saw
(c) Spade (d) Sword

79. There was a holiday on Friday on the occasion of Republic Day. There is a holiday again on the 15th of the next month, which day will be on this 15th?

- (a) Wednesday (b) Friday
(c) Sunday (d) Thursday

80. A box can be made from a sheet as shown in the figure. Which symbol will be on the opposite surface of \$ in the box?



- (a) @ (b) ÷
(c) + (d) ×

81. The city of Harappa of the Indus Valley Civilization was located on the banks of which of the following rivers?

- (a) Ravi (b) Sutlej
(c) Sindhu (d) Jhelum

82. Which of the following rivers flows from east to west?

- (a) Krishna (b) Kaveri
(c) Narmada (d) Chambal

83. Kamakhya Temple is the main tourist destination of which state?

- (a) West Bengal
(b) Himachal Pradesh
(c) Assam
(d) Rajasthan

84. Who calculates the national income in India?

- (a) Ministry of Finance
(b) Central Statistical Organization
(c) Niti Aayog
(d) Indian Statistical Institute

85. The Reserve Bank was nationalized in the year

-
(a) 1935 (b) 1949
(c) 1969 (d) 1947

86. What is the number of Upanishads?

- (a) 108 (b) 18
(c) 04 (d) 208

87. Which of the following is called Mahaparinirvana Express?

- (a) Tourist train connecting Buddhist pilgrimage
(b) A Dalit awareness tour
(c) An institution established to propagate Buddhism
(d) None of the above

88. Who painted 'Last Supper'?

- (a) Leonardo da Vinci
(b) M.F. Husain
(c) R.K. Laxman
(d) Antonio de Corregio

89. When did the Cripps Mission arrive in India?

- (a) In the year 1942
(b) In the year 1945
(c) In the year 1947
(d) In the year 1949

90. The words liberty, equality and fraternity in the preamble of the Indian Constitution are inspired by which great revolution?

- (a) Glorious Revolution
(b) Bolshevik Revolution
(c) French Revolution
(d) None of the above

91. Which of the following is the middle level unit in the three-tier Panchayati Raj system?

- (a) Gram Panchayat (b) Zila Parishad
(c) Panchayat Samiti (d) Gram Sabha

92. When is 'Earth Day' celebrated?

- (a) 20 April (b) 22 April
(c) 24 March (d) 10 May

93. Which of the following rivers does not form a delta?

- (a) Tapti (b) Ganga
(c) Kaveri (d) Godavari

94. Where is the headquarters of 'Indian Space Research Organization' (ISRO)?

- (a) Sriharikota (b) Bengaluru
(c) Chandipur (d) Mumbai

95. Bismillah Khan was associated with which musical instrument?

- (a) Shehnai playing (b) Flute playing
(c) Sarod playing (d) Tabla playing

96. Which state of India does not share border with Bhutan?

- (a) Sikkim (b) Arunachal Pradesh
(c) Assam (d) Nagaland

97. Which of the following pairs is not correctly matched?

- (a) Sri Lanka-Sri Jayewardenepura Kotte
(b) Bangladesh—Karachi
(c) Bhutan-Thimpu
(d) Pakistan-Islamabad

98. India's main port 'Tuticorin' is located in which state?

- (a) Kerala (b) Tamil Nadu
(c) Andhra Pradesh (d) Gujarat

99. Which of the following types of soil is also called cotton soil?

- (a) Red (b) Black
(c) Alluvial (d) Barren

100. Coal is a type of which of the following resources?

- (a) Renewable (b) Fluid
(c) Biotic (d) Non-renewable